

CLAIMS

1. A method for performing a medical procedure, comprising:
 - recording geometric information at a plurality of time points in a plurality of cardiac cycles of a heart of a subject;
 - 5 subsequently detecting a transient event produced at a location on the heart during a cardiac cycle;
 - identifying a time of occurrence of the transient event in the cardiac cycle during which the transient event occurred; and
 - displaying a map of the heart responsive to the identified time of occurrence
 - 10 and the geometric information recorded at a time point in the cardiac cycle that corresponds to the time of occurrence of the transient event.